

Lot	20250703/ FRM016
Reference #	MBIO-7974hFc
Amount per aliquot	0.109 mg

MBIO-7974 (His-Tag NovoBody™ Tetraivalent hIgG1 Fc)

Description

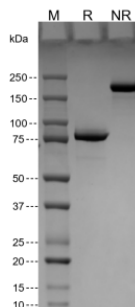
Molecule	NovoBody™ Tetraivalent hIgG1 Fc
Source	Expressed in CHO cells, Purified via ProA
Target	Histidine tag
Characterization	SDS-PAGE, SEC-MALS, and BioLayer Interferometry

Specifications

Physical Appearance	White Powder
Molecular Weight	170 kDa
Formulation	PBS, 10% Trehalose, pH 7.2

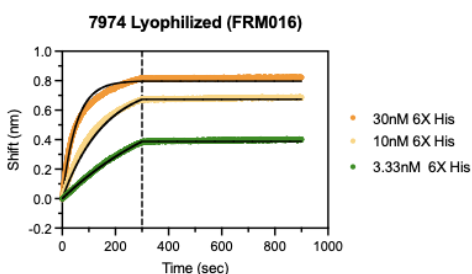
SDS-PAGE

Gel analysis of final purified sample after Streptactin XT affinity purification and size exclusion chromatography. Sample appears at the expected molecular weight of 85 kDa under reducing conditions and 170kDa under non-reducing conditions.



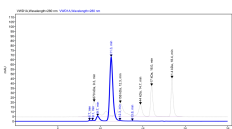
BioLayer Interferometry

Sample binds target analyte with high affinity, slow off-rate, and an estimated K_d of <0.1 nM, K_{on} of $6.3E+05$ 1/Ms and K_{off} of $<1.0E-06$ 1/s when MBIO-7974 is loaded onto GatorBio Streptactin-XT Probes and His-tagged analyte (Her2 with a C-terminal 6X His; Acro Biosystems HE2-H822R) is titrated at 30, 10, and 3.33 nM.



SEC-HPLC

Size exclusion chromatography coupled with high performance liquid chromatography demonstrates that the sample elutes at the expected molecular weight and is $>95\%$ monomer.



Shipping, Storage, Reconstitution and Handling

The product is shipped ambient. Upon receipt, immediately store lyophilized protein aliquots at -20°C with desiccant. Reconstitute each aliquot with 100 μL of sterile deionized water + 10% glycerol (w/v) to a stock solution of 1.087 mg/ml (6.41 μM). Solubilize at room temperature with gentle mixing, do not vortex.

It is strongly recommended to sub-aliquot and store samples at -80°C for further testing. Limit freeze thaws to 2 total cycles. The expected stability for this product is 12 months when the reconstituted sample is stored at -80°C under sterile conditions. If an exact concentration is desired, Nanodrop (A280) the protein using the following Extinction Coefficient: 127090 M $^{-1}$ cm $^{-1}$.